ABSTRACT OF THE DISCLOSURE

To eliminate an amplitude difference between luminance signals from pixels included in horizontal lines of color filters, caused by a sensitivity difference from one photosensor to another in a CCD, and reduce a horizontal stripe-like noise appearing in a monitoring image and captured image, there is provided an arithmetic circuit to calculate an amplitude difference in Gr and Gb signals based on an output from a four-channel detector to set gains multiplied by compensation factors, respectively, with which the white balance-processed Gr and Gb signals are equal in amplitude to each other, thereby controlling the gain of a while balance amplifier.